

ADULT STANDARD WATER CLOSET (P-1) DETAIL

STRUCTURAL FOOTING

NO SCALE

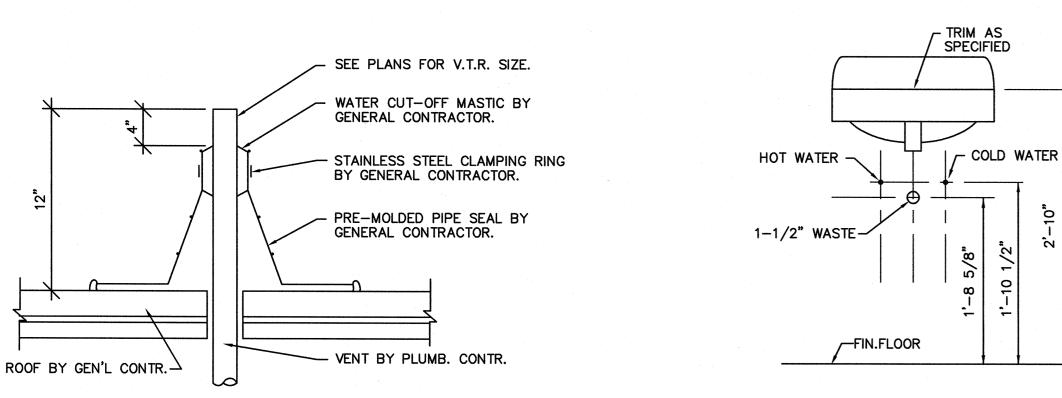
PIPING INSTALLED IN THIS AREA SHALL BE SLEEVED PER SPECIFICATIONS.

PIPING UNDER FOOTINGS

45° -

SLEEVE —

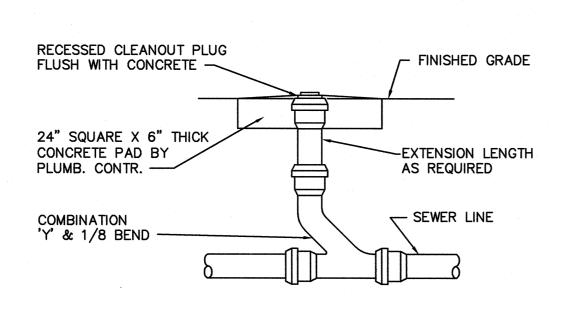
(SEE STRUCTURAL PLANS)



ADULT ADA LAVATORY (P-3 & 5) ROUGH-IN ELEVATION

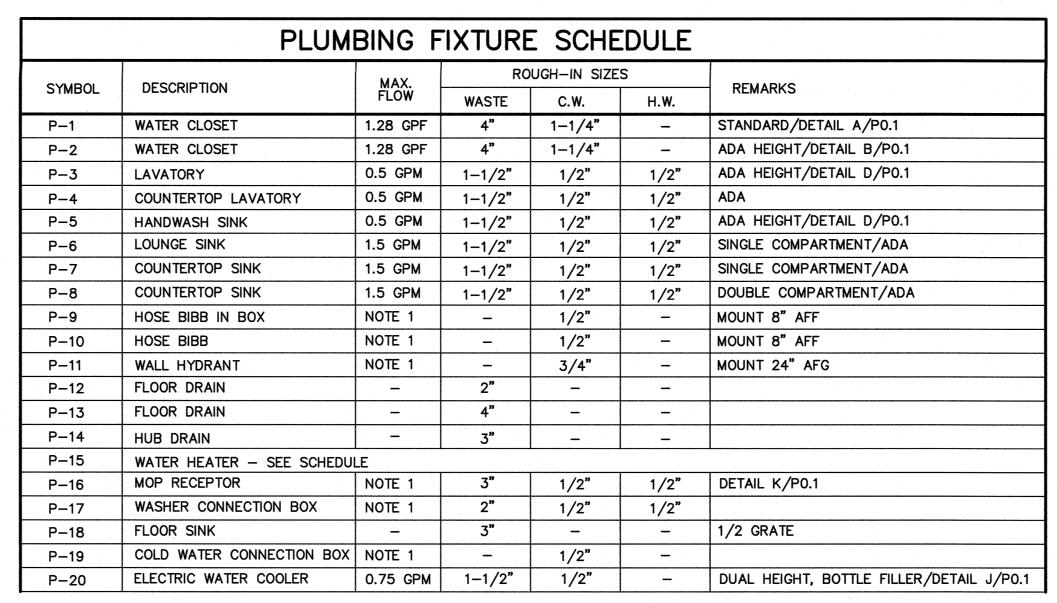
ADULT ADA WATER

CLOSET (P-2) DETAIL



EXTERIOR CLEANOUT DETAIL NO SCALE

P0.1

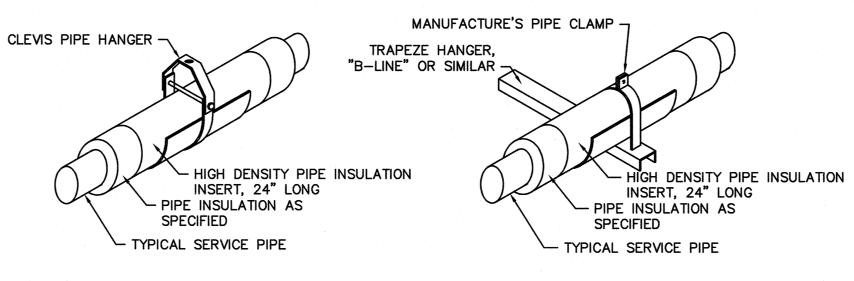


FLOW RATE NOT REGULATED BY CODE. FIXTURE SHALL COMPLY WITH SPECIFICATIONS. LAVATORIES SHALL HAVE MIXING VALVES INSTALLED SUCH THAT WATER TEMPERATURE IS LIMITED TO 110F. MIXING VALVES SHALL CONFORM TO ASSE 1070 OR CSA B125.3, SEE SPECIFICATIONS.

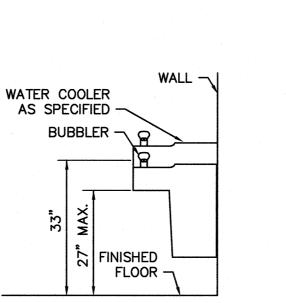
WATER HEATER SCHEDULE								
SYMBOL	DESCRIPTION	ROUGH-IN SIZES T		TEMP.	STORAGE	DECOVEDA	ELECTRICAL	DETAIL
		CW	HW	SETTING	STORAGE CAPACITY RECOVER	RECOVERT	ELECTRICAL	DETAIL
P-15	TANK TYPE ELECTRIC	3/4"	3/4"	120°F	66 GAL	59 GPH	10 KW, 480V, 3Ø	H/P0.1

CIRCULATOR PUMP SCHEDULE									
SYMBOL	GPM	THD	HP VOLTAGE		LOCATION	SERVICE	CONTROL		
CP-1	2	12	1/25	115 V., 1ø	EXG. MECH.	H.W. RETURN	AQUASTAT, TIME CLOCK		
CP-2	1	6	1/40	115 V., 1ø	JANITOR 100	H.W. RETURN	AQUASTAT, TIME CLOCK		

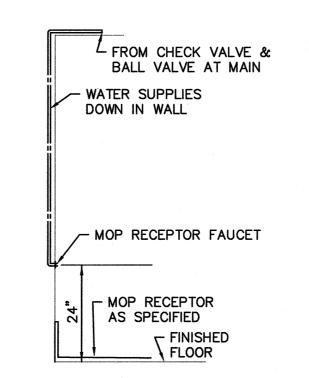
LINT FILTER SCHEDULE								
SYMBOL	DESCRIPTION	ROUGH- INLET	IN SIZES	FLOW RATING	FILTER MEDIA			
LF-1	LINT FILTER	3"	3"	70 GPM	REMOVABLE LINT SCREEN			



PIPE HANGER DETAILS



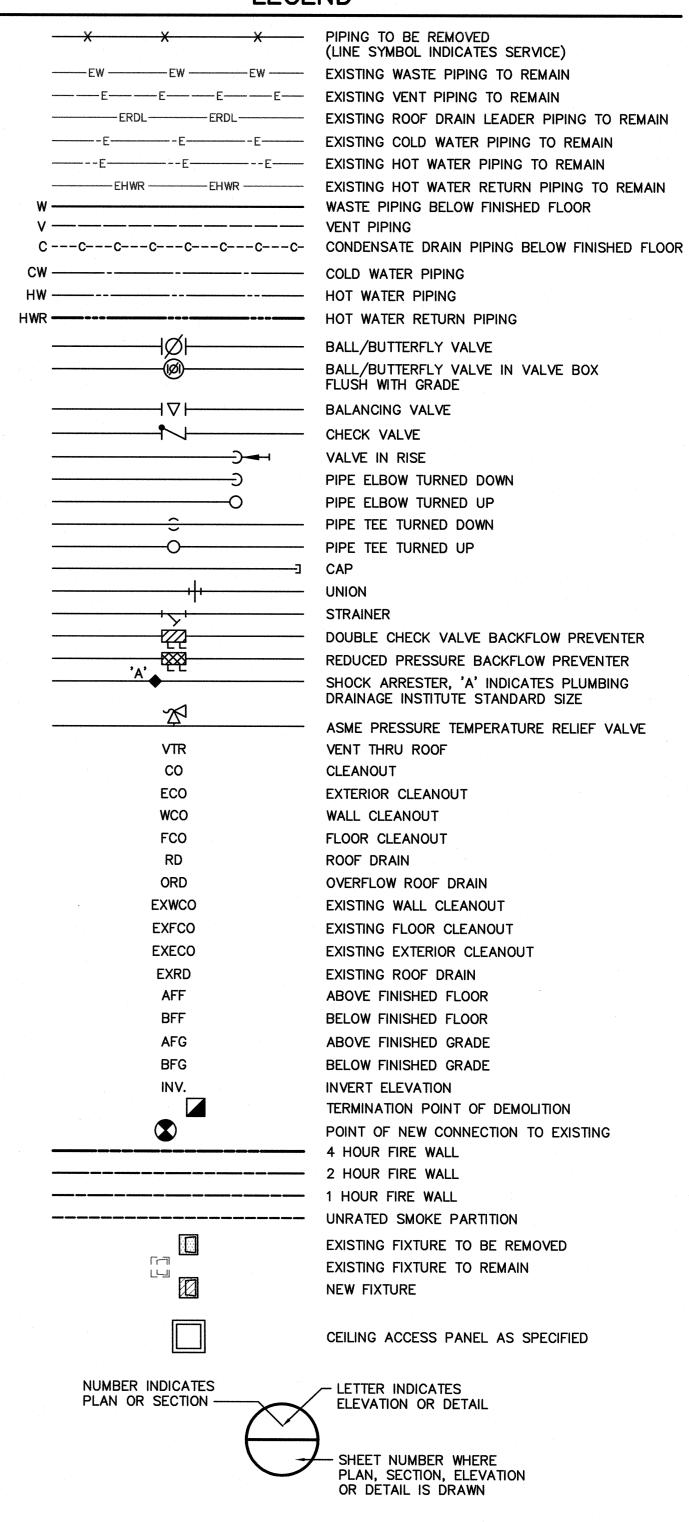
ADULT'S DUAL HEIGHT ELECTRIC WATER COOLER (P-20) DETAIL



P.01

MOP RECEPTOR (P-16) DETAIL NO SCALE

LEGEND



TOTAL CONNECTED LOAD	
WASTE FIXTURE UNITS (RENOVATION) = WASTE FIXTURE UNITS (ADDITION) = WASTE FIXTURE UNITS (TOTAL) =	57.5 F.U. 77.5 F.U. 135 F.U.
COLD WATER DEMAND =	127 GPM
HOT WATER DEMAND (EXISTING WEST WATER HEATER) = HOT WATER DEMAND (NEW WATER HEATER) =	= 19.6 GPM 21.5 GPM

124 Market St, Wilmington, NC 28401 910 762-0892 s2a3.com Coastal Land Design, PLLC

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254 North Front Street Phone: 910.343.800 Suite 201 Fax: 910.343.808 Wilmington, NC 28401 www.woodseng.com

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Brunswick Community College **Allied Health** Additions & Renovations

185 College Rd NE Bolivia, NC 28422

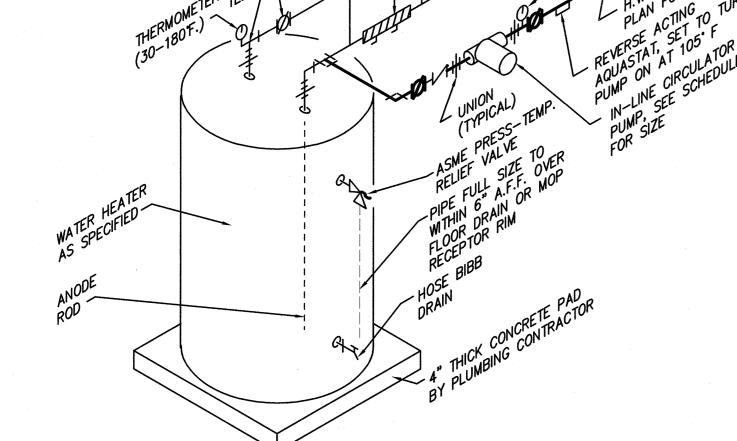
Project No: 16-15828-01

Construction Documents

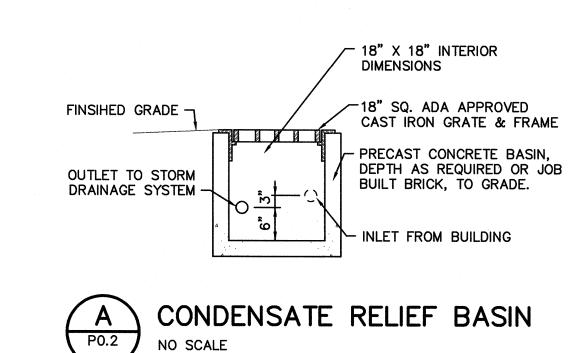
15 October, 2018

PLUMBING LEGEND, SCHEDULES, AND DETAILS

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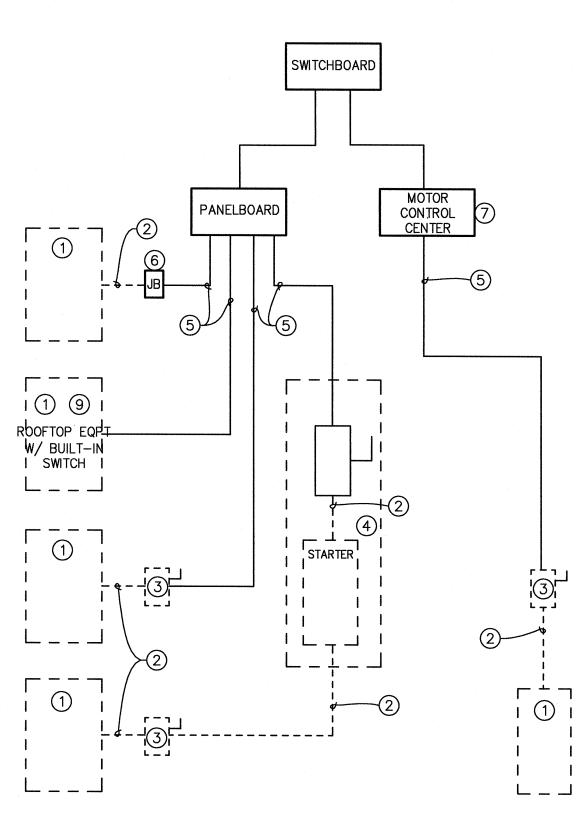
H P0.1 WATER HEATER PIPING DETAIL (P-15) NO SCALE



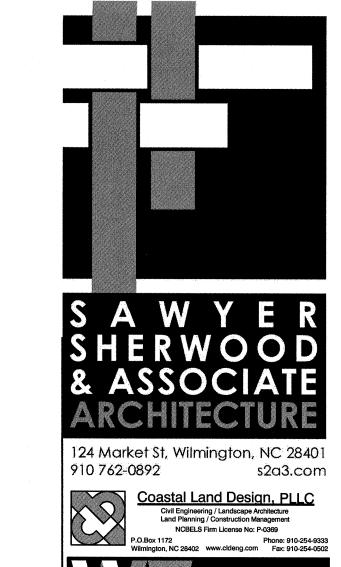
NO SCALE

ELECTRICAL NOTES

- (1) EQUIPMENT OF TRADES OTHER THAN ELECTRICAL.
- 2 CONDUIT & WIRING BY TRADES OTHER THAN ELECTRICAL.
- IF AN ADDITIONAL DISCONNECT IS REQUIRED BY THE NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.
- A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER. LOCATE ADJACENT TO EQUIPMENT.
- (5) FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE PANELBOARD SCHEDULES & DRAWINGS FOR BREAKER AND WIRE SIZES.
- 6 JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT. IF NO STARTER OR DISCONNECT IS SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR OR OTHER TRADES.
- 7 FOR PROJECTS UTILIZING A MOTOR CONTROL CENTER; THE STARTER, C/B, OR VFD IN THE MCC ARE PROVIDED BY THE HVAC CONTRACTOR.
- 8 IN ALL CASES, THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS AND PERFORM START-UP AND TESTING OF EQUIPMENT.
- 9 IF THE ROOF TOP FAN IS NOT PROVIDED WITH A BUILT—IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.
- FOR A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND THE OTHER TRADES.



B ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT





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Brunswick Community College **Allied Health**

Additions & Renovations 185 College Rd NE

Bolivia, NC 28422

Project No: 16-15828-01

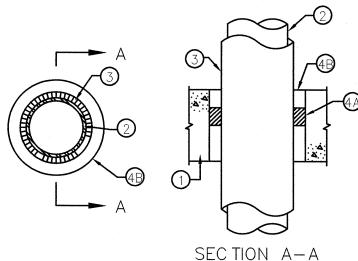
Construction Documents 15 October, 2018

PLUMBING

DETAILS

UL SYSTEM No. CA-J-5002 (FORMERLY SYSTEM NO 91-B) SEPTEMBER 3, 2004

(F RATINGS - 2 AND 3 HR (SEE ITEM 1A AND 4) T RATING - 0, 1/2 AND 1 HR (SEE ITEM 1A AND 4) L RATING AT AMBIENT - 2 CFM/SQ FT L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



1. FLOOR OR WALL ASSEMBLY - MIN 2-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIE**goncrete blocks*** . Max diam SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

1A. STEEL SLEEVE (OPTIONAL, NOT SHOWN) — NOM 36 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE SLEEVE CAST INTO MIN 4-1/2 IN.

THICK CONCRETE FLOOR OR WALL. SLEEVE TO BE FLUSH WITH OR PROJECT WAWHEN STEEL SLEEVE IS USED, F RATING IS 2 HR AND T RATING IS 0

2. PIPE - NOM 4 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER PIPE, NOM 15 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 30 IN. DIAM (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTULE IRON PRESSURE PIPE OR NOM 30 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE CENTERED IN THE OPENING AND RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR OR WALL ASSEMBLY. 3. PIPE COVERING* - NOM 1, 2 OR 3 IN. THICK HOLLOW CYLINDRICAL HEAVY

DENSITY GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF SEALING LAP TAPE. TRANSVERSE JOINTS SECURED WITH METAL FASTENERS OR WITH BUTT STRIP TAPE SUPPLIED WITH THE

SEE PIPE AND EQUIPMENT COVERING - MATERIALS* (BRGU) CATEGORY IN BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX

4. FIRESTOP SYSTEM - THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS

A. FILL, VOID OR CAVITY MATERIALS* - WRAP STRIP - NOM 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2 IN. WIDE BY 24 IN. LONG STRIPS. NOM 2 IN. WIDE STRIPS TIGHTLY-WRAPPED AROUND PIPE COVERING (FOIL SIDE EXPOSED) TO FILL ANNULAR SPACE. EACH LAYER OF WRAP STRIP IS TO BE INSTALLED WITH A BUTTED SEAM, WITH THE BUTTED SEAMS IN SUCCESSIVE LAYERS STAGGERED. WRAP STRIP LAYERS SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND SLIDE INTO ANNULAR SPACE SUCH THAT THE TOP EDGES ARE RECESSED MIN 1/2 IN. FORM TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES. THE WRAP STRIP LAYERS SHALL BE INSTALLED IN THE SAME MANNER USED FOR FLOOR ASSEMBLIES BUT SHALL BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF THE WALL HE MIN NUMBER OF WRAP STRIP LAYERS REQUIRED IS DEPENDENT UPON HE MAX PIPE SIZE AND THE PIPE COVERING THICKNESS, AS SHOWN IN THE FOLLOWING TABLE:
MIN. FLOOR MAX NOM PIPE

OR WALL	PIPE	COVERING	ANNULAR	OF WRAP	F	Т
THKNS,	DIAM,	THKNS,	SPACE	STRIP	RATING	RATING
IN	IN	IN	IN	LAYERS	HR	HR
2-1/2	6	1	1/4 TO 3/8	1	2	1
2-1/2	6	2	1/2 TO 5/8	2	2	1
2-1/2	12	1	1/4 TO 3/8	1	2	1/
4-1/2	12	1	1/4 TO 3/8	1	. 2	1
4-1/2	12	2	1/2 TO 5/8	2	2	1
4-1/2	20	1	1/2 TO 1	2	3	1
4-1/2	30	2	3/4 TO 1-1/4	3	2	1
4-1/2	20	3	1 TO 1-1/2	4	2	1

3M COMPANY - FS-195+

B. FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - APPLIED TO FILL THE ANNULAR SPACE (OVER EDGES OF WRAP STRIP LAYERS) TO A MIN DEPTH OF 1/2 IN., FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES **3M COMPANY** - CP 25WB+ CAULK OR FB-3000 WT SEALANT.

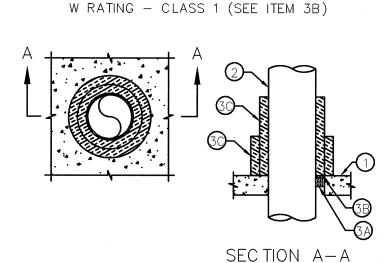
*BEARING THE UL CLASSIFICATION MARKING REPRINTED FROM THE ONLINE CERTIFICATIONS DIRECTORY WITH PERMISSION FROM UL. ©2017 UL LLC

NOTE: DETAIL FOR REFERENCE ONLY. THE CONTRACTOR SHALL INSTALL FIRE PROOFING IN COMPLETE ACCORDANCE WITH IT'S UL LISTING AND PENETRATION SYSTEM INSTALLATION INSTRUCTIONS.

F RATINGS - 2 HR T RATING - 2 HR L RATING AT AMBIENT - LESS THAN 1 CFM/SQ.FT. L RATING AT 400 F - 4 CFM/SQ FT

UL SYSTEM No. F-A-1105

JUNE 24, 2016



1. FLOOR ASSEMBLY - MIN. 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE. AS AN ALTERNATE, ANY MIN. 2 HR. FIRE RATED D700, D800 OR D900 SERIES FLOOR-CEILING DESIGN IN THE UL FIRE RESISTANCE DIRECTORY A MIN. 2-1/2 IN. THICKNESS OF LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE TOPPING OVER THE STEEL DECK MAY BE USED.

MAX. DIAM. OF OPENING IS 12-3/4 IN.

2. THROUGH - PENETRANT - ONE METALLIC PIPE INSTALLED CONCENTRICALLY OR ECCENTRICALLY WITHIN OPENING. ANNULAR SPACE BETWEEN PENETRANT AND PERIPHERY OF OPENING SHALL BE MIN. OF 0 IN. (POINT CONTACT) TO MAX 2 IN. PENETRANT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR MBLY. THE FOLLOWING TYPES AND SIZES OF PENETRANTS MAY BE USED: A. STEEL PIPE - NOM. 10 IN. DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER)
STEEL PIPE. B.IRON PIPE - NOM. 10 IN. DIAM. (OR SMALLER) CAST OR DUCTILE IRON PIPE.

TUBING OR NOM. 6 IN. DIAM. (OR SMALLER) RIGID STEEL CONDUIT. 3. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING: A.PACKING MATERIAL - MIN. 2 IN. THICKNESS OF MIN. 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. WHEN CP 604 SEALANT IS USED (SEE ITEM 3B), MIN. THICKNESS OF PACKING MATERIAL IS 4 IN. AND MIN. THICKNESS OF FLOOR IS 4-1/2 IN. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR TO ACCOMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. B.FILL, VOID OR CAVITY MATERIALS* - SEALANT - MIN. 1/2 IN. THICKNESS OF SEALANT APPLIEDWITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI, INC - FS-ONE SEALANT OR

CONDUIT - NOM. 4 IN. DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC

CP 604 SELF-LEVELING FIRESTOP SEALANT W RATING APPLIES ONLY WHEN CP 604 SEALANT IS USED

DUCT WRAP MATERIAL* - NOM. 2 IN. THICK ENCAPSULATED DUCT WRAP TIGHTLY WRAPPED AROUND PENETRANT TO EXTEND 36 IN. ABOVE FLOOR. AN ADDITIONAL LAYER OF NOM. 2 IN. THICK ENCAPSULATED DUCT WRAP TIGHTLY FLOOR, ALL LONGITUDINAL SEAMS OF BOTH LAYERS OF DUCT WRAP AND JOINTS BETWEEN LAYERS OF DUCT WRAP ARE SEALED WITH FOIL TAPE. ONE OF THE FOLLOWING WRAP MAY BE USED:

C1. NOM. 1-1/2 IN. OF 2 IN. THICK ENCAPSULATED DUCT WRAP. UNIFRAXILLC - FRYEWRAP DUCT INSULATION OR FIREWRAP DUCT 1.5 INSULATION. C2. NOM. 1-1/2 IN. THICK ENCAPSULATED DUCT WRAP.

THERMAL CERAMICS INC - FIREMASTER FASTWRAP XL DUCT INSULATION. *BEARING THE ULCLASSIFICATION MARKING

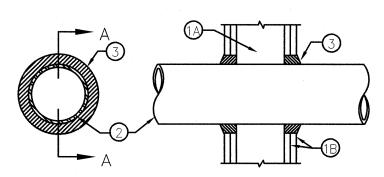
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UL SYSTEM No. W-L-1001 (FORMERLY SYSTEM NO. 147)

JUNE 15, 2005

F RATINGS - 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3) T RATINGS - 0, 1, 2, 3 AND 4 HR (SEE ITEM 3) L RATINGS AT AMBIENT - LESS THAN 1 CFM/SQFT L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



1. WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN HE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING

SECTION A-A

CONSTRUCTION FEATURES:

A. STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP

CHANNELS SPACED MAX 24 IN. (610 MM) OC.

GYPSUM BOARD* — NOM 1/2 OR 5/8 IN. (13 OR 16 MM) THICK, 4 FT. (122

CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE,
THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 26 IN. (660 MM). 2. THROUGH PENETRANT — ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL B MIN OF 0 IN. (0 MM) (POINT CONTACT) TO MAX 2 IN. (51 MM). PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE

USED: A. STEEL PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR B. IRON PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR

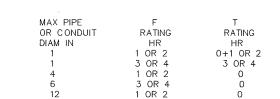
HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE. C. CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING D. COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) E. COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER)

F. THROUGH PENETRATING PRODUCT* - FLEXIBLE METAL PIPING - THE FOLLOWING YPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED: 1. NOM 2 IN. (51 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC ERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

OMEGA FLEX INC 2. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

3. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR

3. FILL, VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MIN 5/8. 1-1/4, 1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL.
THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:



+WHEN COPPER PIPE IS USED, T RATING IS 0 HR. 3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT,

*BEARING THE UL CLASSIFICATION MARKING

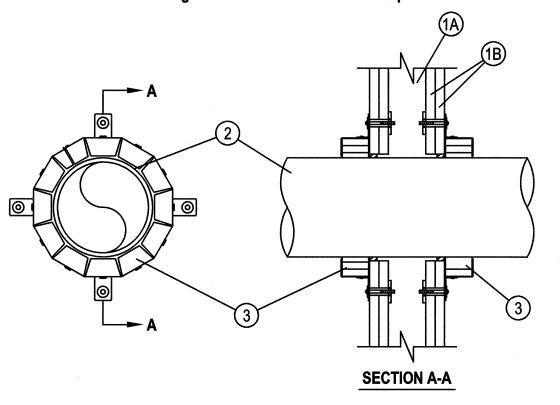
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UL System No. W-L-2078

JANUARY 28, 2015

F Ratings — 1 and 2 Hr (See Item 1) T Ratings — 0, 1 and 2 Hr (See Items 2 and 3) L Rating At Ambient — 3 CFM/sq ft L Rating At 400 F — Less Than 1 CFM/sq ft



1. Wall Assembly — The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL fire Resistance Directory and shall include the construction features noted below:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced max 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.

B. Gypsum Board* — Nom 5/8 in. thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 11-1/2 in. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through-Penetrants — One nonmetallic pipe, conduit or tubing to be installed within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The

following types and sizes of nonmetallic pipes may be used: A. Polyvinyl Chloride (PVC) Pipe — Nom 10 in. diam (or smaller) Schedule 40 solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 10 in. diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping

C. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 6 in. diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems

D. Flame Retardant Polypropylene (FRPP) Pipe — Nom 6 in. diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

E. Polyvinylidene Fluoride (PVDF) Pipe — Nom 4 in. diam (or smaller) PVDF pipe for use in closed (process or supply) or vented (drain, waste or

When max 6 in. diam pipe is used, T Rating is equal to the hourly fire rating of the wall. When nom 8 in. or 10 in. diam pipe is used, T Rating is 0 hr. 3. Firestop Device* — Firestop Collar — Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to both sides of the wall using the anchor hooks provided with the collar. (Minimum two anchor

hooks for 1-1/2 and 2 in. diam pipes, three anchor hooks for 3 and 4 in. diam pipes, four anchor hooks for 6 in. diam pipes, ten anchor hooks for 8 in. diam pipes and twelve anchor hooks for 10 in. diam pipes). The anchor hooks are to be secured to the surface of wall with 3/16 in. diam by 2-1/2 in. long steel toggle bolts along with washers. As an alternate for pipe sizes of nom 4 in. diam or less, min No. 10 by 1-1/2 in. long drywall or laminate screws with min 3/4 in. steel washers may be used. When the drywall or laminate screw is used, T Rating shall not exceed 1 hr. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643 50/1.5"N, CP 643 63/2"N, CP 643 90/3"N, CP 643 110/4"N, CP 643 160/6"N, CP 644 200/8" and CP 644 250/10" Firestop Collars

4. Fill, Void or Cavity Material* — Sealant - (Not Shown) — Min 1/2 in. thickness of sealant applied within the annular space for nom 8 in. and 10 in. diam pipes, flush with each side of wall. Sealant in annular space is optional for max 6 in. diam pipes. A min 1/4 in. thickness of sealant is required within the annular space, flush with each side of wall, to attain the L Ratings for max 6 in. diam pipes.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant *Bearing the UL Classification Mark

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NOTE: DETAIL FOR REFERENCE ONLY. THE CONTRACTOR SHALL INSTALL FIRE PROOFING IN COMPLETE ACCORDANCE WITH IT'S UL LISTING AND PENETRATION SYSTEM INSTALLATION INSTRUCTIONS.

UL SYSTEM No. W-L-5001 (FORMERLY SYSTEM NO. 147) MAY 19, 2005

F RATINGS - 1 AND 2 HR (SEE ITEM 1) T RATINGS -3/4, 1 AND 1-1/2 HR (SEE ITEM 3) L RATINGS AT AMBIENT - 2 CFM/SQ FT L RATING AT 400 F - LESS THAN 1 CFM/SQ FT

SECTION A-A

1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL OR PARTITION DESIGN IN THE UI FIRE STANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES: A. STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 IN. BY 4 IN. (25 MM BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP HANNELS SPACED MAX 24 IN. (610 MM) OC. B. GYPSUM BOARD* - NOM 5/8 IN. (16 MM) THICK, 4 FT (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS,

FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY, MAX DIAM OF OPENING IS 14-1/2 IN (368 MM) FOR WOOD STUD WALLS AND 18 IN. (457 MM) FOR STEEL STUD WALLS. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS 1 HR WHEN INSTALLED IN A 1 HR FIRE RATED WALL AND 2 HR WHEN INSTALLED IN A 2 HR FIRE RATED WALL. 2. THROUGH PENETRANTS - ONE METALLIC PIPE OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL

ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED: A. STEEL PIPE - NOM 12 IN. (305 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER)

B. COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) C. COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) 3. PIPE COVERING* - NOM 1 IN. OR 2 IN. (25 MM OR 51 MM) THICK HOLLOW CYLINDRICAL

HEAVY DENSITY GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT STRIP TAPE SUPPLIED WITH THE PRODUCT. WHEN NOM 1 IN. (25 MM) THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/4 IN. TO MAX 3/8 IN. (6 MM TO MAX 10 MM). WHEN NOM 2 IN. (51 MM) THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/2 IN. T

MAX 3/4 IN. (13 MM TO MAX 19 MM).

SEE PIPE AND EQUIPMENT COVERING — MATERIALS (BRGU) CATEGORY IN BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR

LESS MAY BE USED.

THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 3/4 HR WHEN NOM 1 IN. (25 MM) THICK PIPE COVERING IS USED. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 1 HR AND 1-1/2 HR WHEN NOM 2 IN. (51 MM) THICK PIPE COVERING IS USED WITH 1 HR AND 2 HR FIRE RATED WALLS, RESPECTIVELY 4. FIRESTOP SYSTEM - INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE

DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:

A. FILL, VOID OR CAVITY MATERIALS* - WRAP STRIP — NOM 1/4 IN. (6 MM) THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL. SUPPLIED IN 2 IN. (51 MM) WIDE STRIPS. NOM 2 IN. (51 MM) WIDE STRIP TIGHTLY WRAPPED AROUND PIPE COVERING (FOIL SIDE OUT) WITH SEAM BUTTED. WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND SLID INTO ANNULAR SPACE APPROX 1-1/4 IN. (32 MM) SUCH THAT APPROX 3/4 IN. (19 MM) OF THE WRAP STRIP WIDTH PROTRUDES FROM THE WALL SURFACE. ONE LAYER OF WRAP STRIP IS REQUIRED WHEN NOM 1 IN. (25 MM) THICK PIPE COVERING IS USED. TWO LAYERS OF WRAP STRIP ARE REQUIRED WHEN NOM 2 IN. (51 MM) THICK PIPE COVERING 3M COMPANY - FS-195+

B. FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - MIN 1/4 IN. (6 MM) DIAM CONTINUOUS BEAD APPLIED TO THE WRAP STRIP/WALL INTERFACE AND TO THE EXPOSED 3M COMPANY - CP 25WB+, IC 15WB+, FIREDAM 150+ CAULK OR FB-3000 WT SEALANT

*BEARING THE UL CLASSIFICATION MARKING REPRINTED FROM THE ONLINE CERTIFICATIONS DIRECTORY WITH PERMISSION FROM UL.

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FIRESTOP SYSTEMS

ProSet Systems, Inc. 1355 Capital Circle Lawrenceville, GA 30043-5866 U.S.A.

Design No. PS/PV 120-08

Vertical (wall)
Ratings: ASTM E-814 - 2 Hrs. (F), 1 Hrs. (T) See item 1.
CAN/ULC - S115- 2 Hrs. (F/FH) 1 Hrs. (FT/FTH)

Gypsum board / steel or wood stud wall, with minimum 3-1/2" cavity width, having a one- or two-hour fire rating. 'F' Rating of system will equal that of the wall assembly. 1 hour 'T' Rating

Box and vertical pipe shall be supported by attaching the four box brakets in a secure manner to the wall studs. Branch and Stack piping to be rigidly supported within the cavity of the wall.

Nominal 2" or larger Metallic, ABS or PVC DWV piping. Metallic or Plastic water supply piping.

IMPORTANT: Washer Box units cannot be installed back to back within the same wall cavity. Gaps up to 1/2" around the box can be sealed with regular drywall cement. Gaps over 1/2" must be

ProSet "Fire Guard Washer Box*" made with a special fire rated resin with One 6" X 4"

* Component Bearing the Warnock Hersey International Certification Mark.

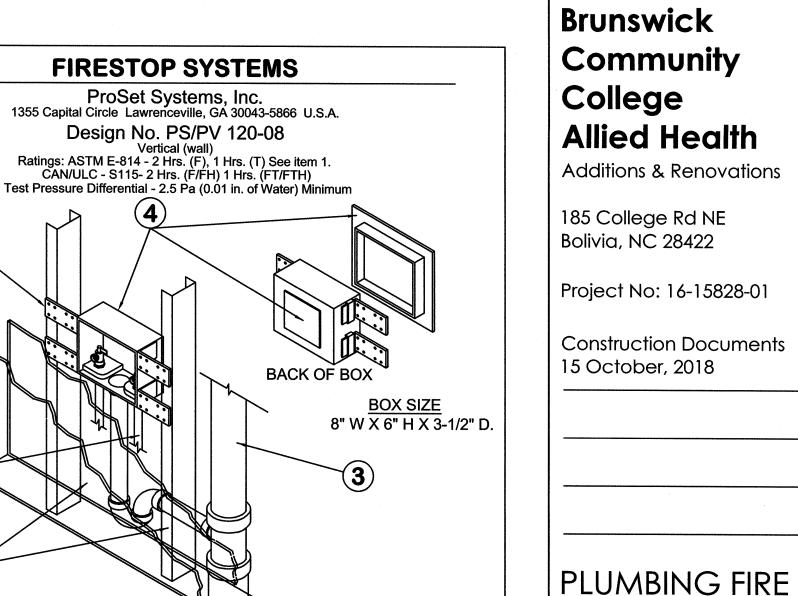
sealed with a silicone firestop sealant applied to the full depth of the membrane.

Red Intumescent adhesive pad mounted to the back of the box.

when the wall rating is 2 hour.

3. Pipe Material:

4. Firestop Device:



BARRIER **PENETRATION DETAILS**

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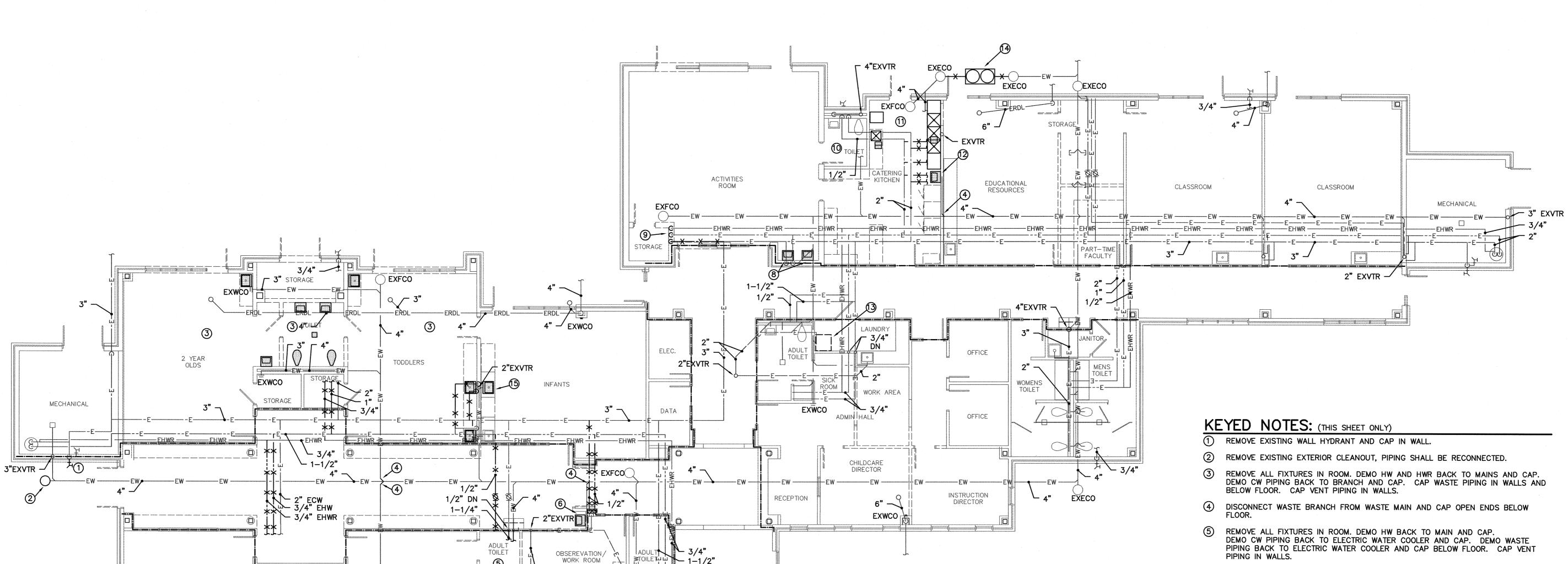
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910 762-0892



4 YEAR OLDS

EXFC0

3/4" —

STORAGE

STORAGE

3 YEAR OLDS

STORAGE

4

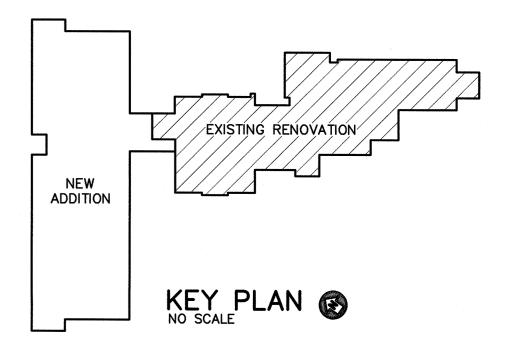
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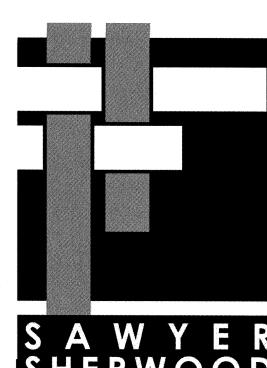
2. INTENT FOR DEMO OF UNDERGROUND WASTE PIPING IS TO MINIMIZE TRENCHING OF EXISTING FLOOR SLAB BY DISCONNECTING EXISTING BRANCHES FROM MAIN AND CAPPING BOTH ENDS (UNLESS OTHERWISE INDICATED). CONTRACTOR SHALL PERFORM A VIDEO SCOPE PRIOR TO START OF RENOVATION TO DETERMINE EXACT LOCATIONS OF EXISTING CONNECTION POINTS BELOW SLAB.

- REMOVE EXISTING SINK. DEMO HW AND CW BACK TO MAIN AND CAP. CAP WASTE BELOW FLOOR. CAP VENT IN WALL.
- REMOVE EXISTING SINK. DEMO HW AND CW BACK TO BRANCHES AND CAP. DEMO WASTE BACK TO BRANCH AND CAP BELOW FLOOR. CAP VENT IN WALL.
- REMOVE EXISTING SINKS AND CARRIERS. HW, CW, W, AND V PIPING SHALL REMAIN IN WALL AND BE CONNECTED TO NEW SINK.
- REMOVE EXISTING PIPING IN WALL TO ABOVE CEILING. HW AND HWR SHALL BE RECONNECTED. REMOVE CW BACK TO POINT INDICATED AND CAP.
- (10) EXISTING RESTROOM FIXTURES SHALL REMAIN.
- 11) REMOVE EXISTING KITCHEN PLUMBING FIXTURES. CAP EXISTING GREASE WASTE PIPING BELOW FLOOR AND ABANDON. ABANDON GREASE INTERCEPTOR. CAP VENT PIPING IN WALLS. REMOVE HW AND CW BACK TO BRANCHES AND CAP.
- 12 REMOVE EXISTING HAND WASH SINK. CAP VENT PIPING IN WALL. REMOVE HW AND CW BACK TO BRANCHES AND CAP. CAP WASTE PIPING BELOW FLOOR.
- (3) REMOVE EXISTING WASHER/DRYER AND CAP CONNECTED PIPING IN WALL.
- REMOVE EXISTING 1,000 GALLON PRECAST UNDERGROUND GREASE INTERCEPTOR. REMOVE INLET AND OUTLET PIPING BACK TO NEAREST CLEANOUTS AND CAP BELOW GRADE.
- (5) REMOVE EXISTING SINK. DEMO HW AND CW AS INDICATED AND CAP. CAP WASTE AND VENT IN WALL



INSTALLED AS DESIGNED.





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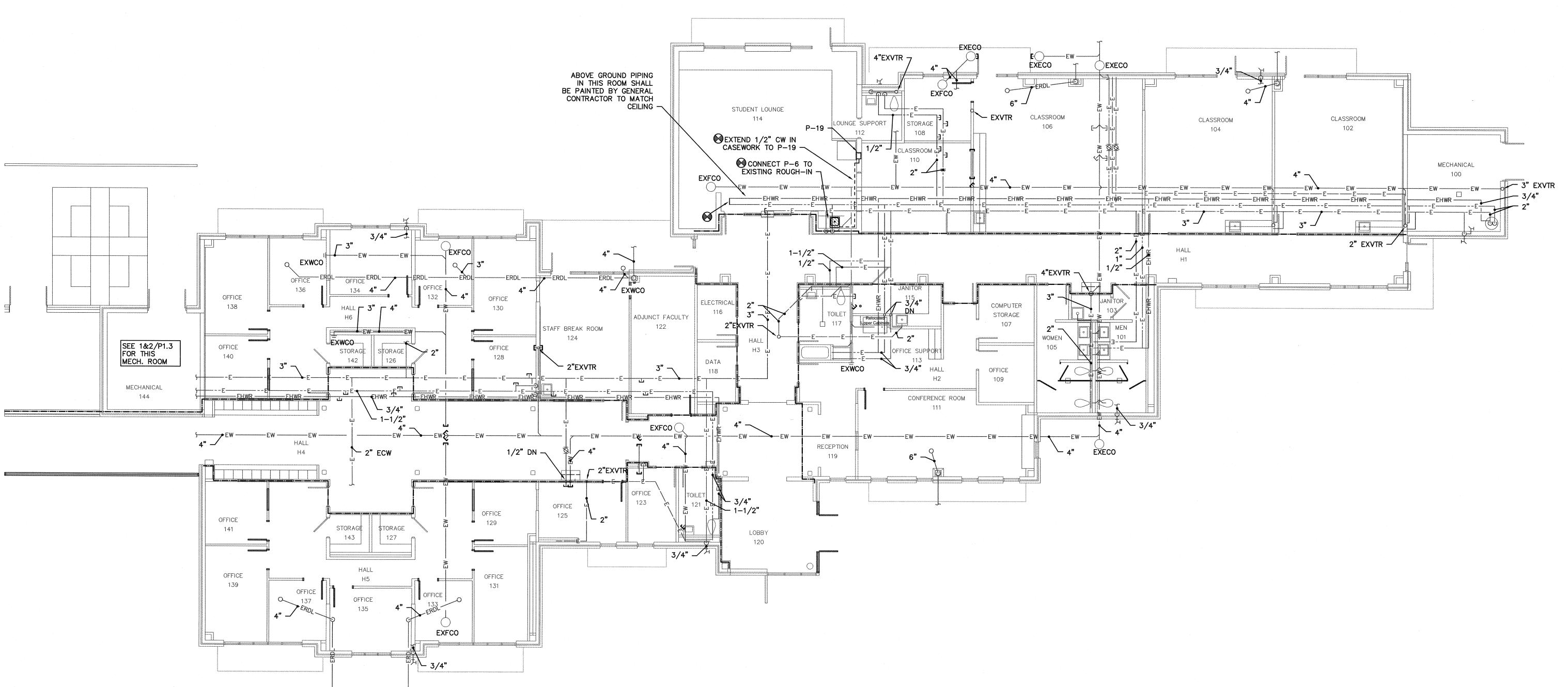
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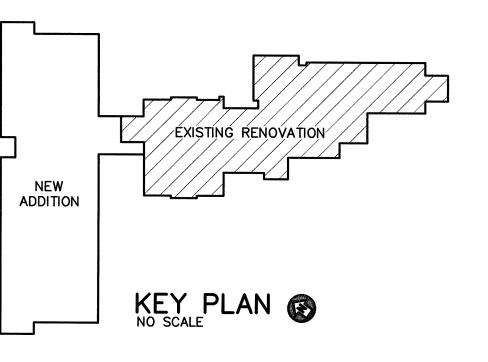
PLUMBING PLAN - DEMOLITION

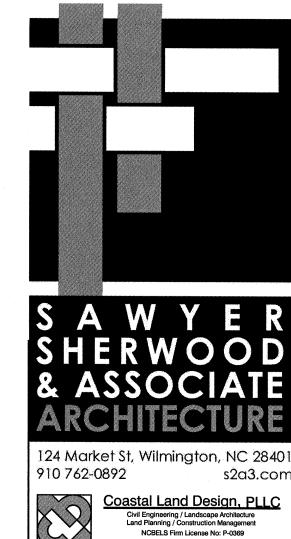




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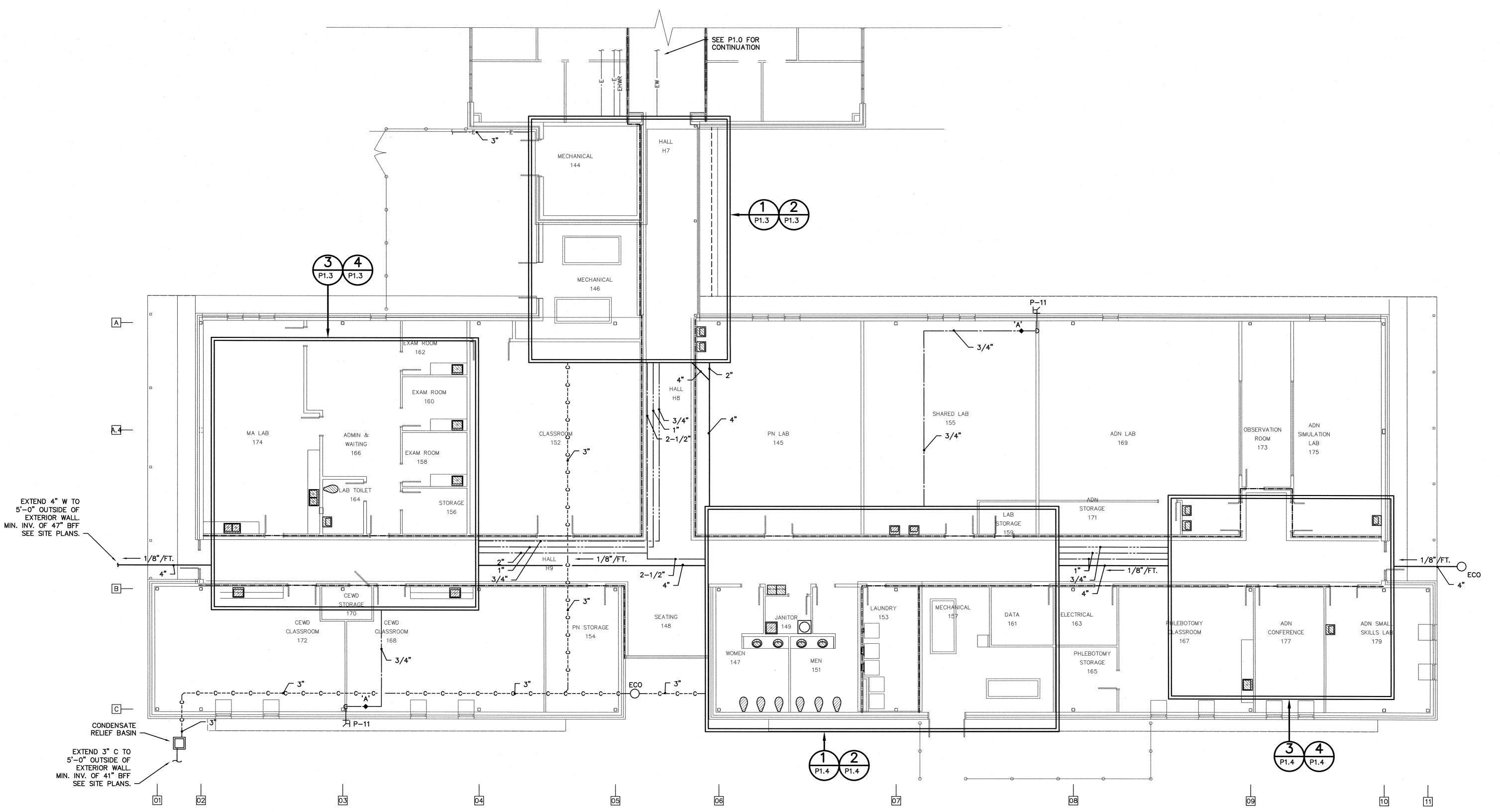
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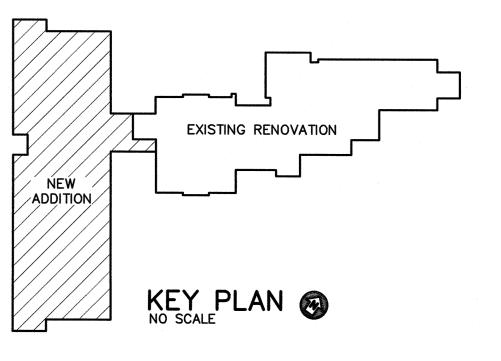
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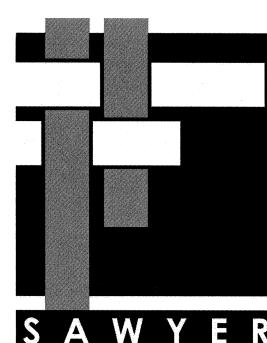




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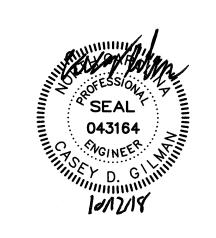
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PLUMBING PLAN
- NEW ADDITION

P1.1







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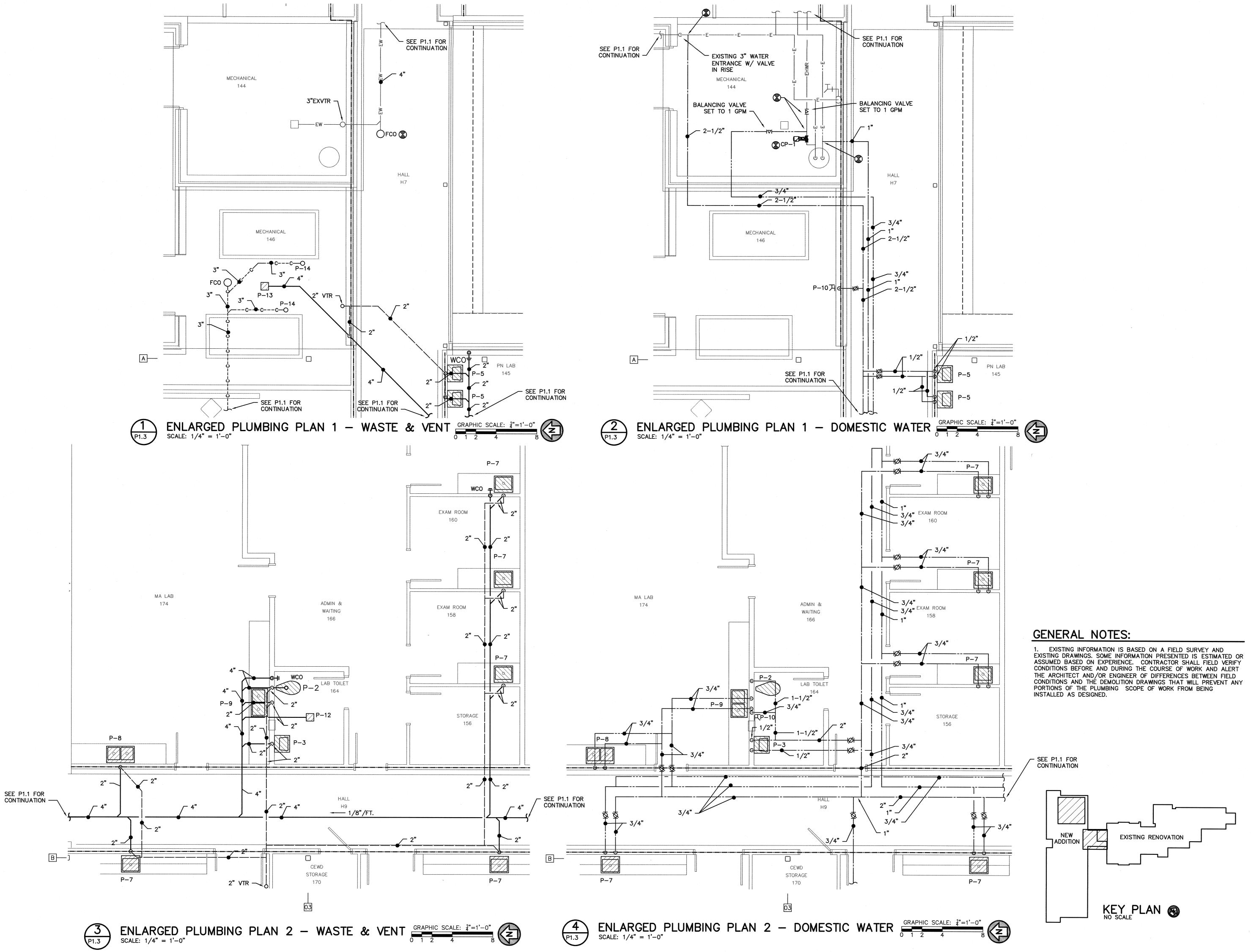
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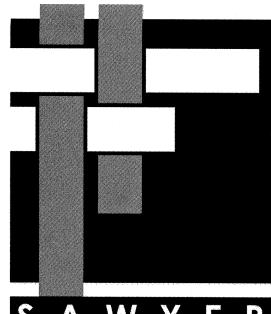
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PLUMBING PLAN
- ROOF

P1.2





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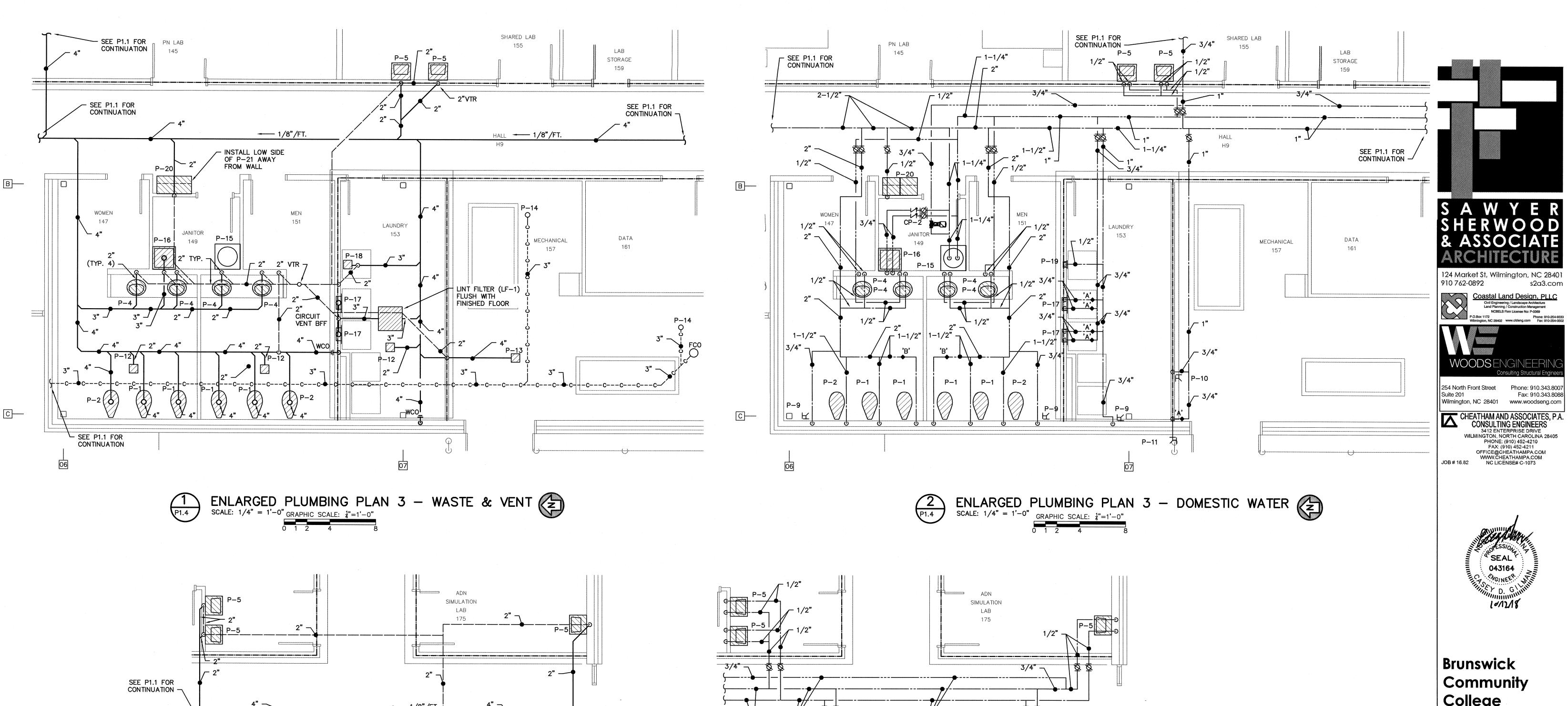
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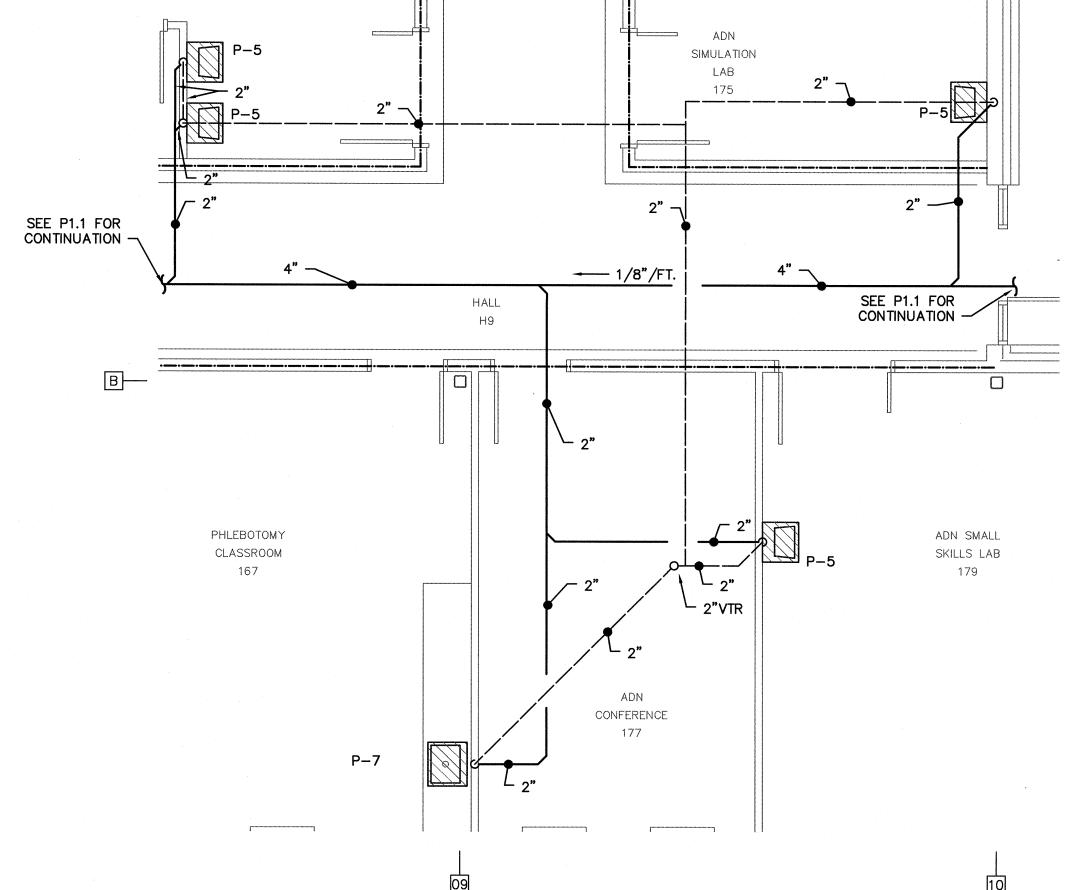
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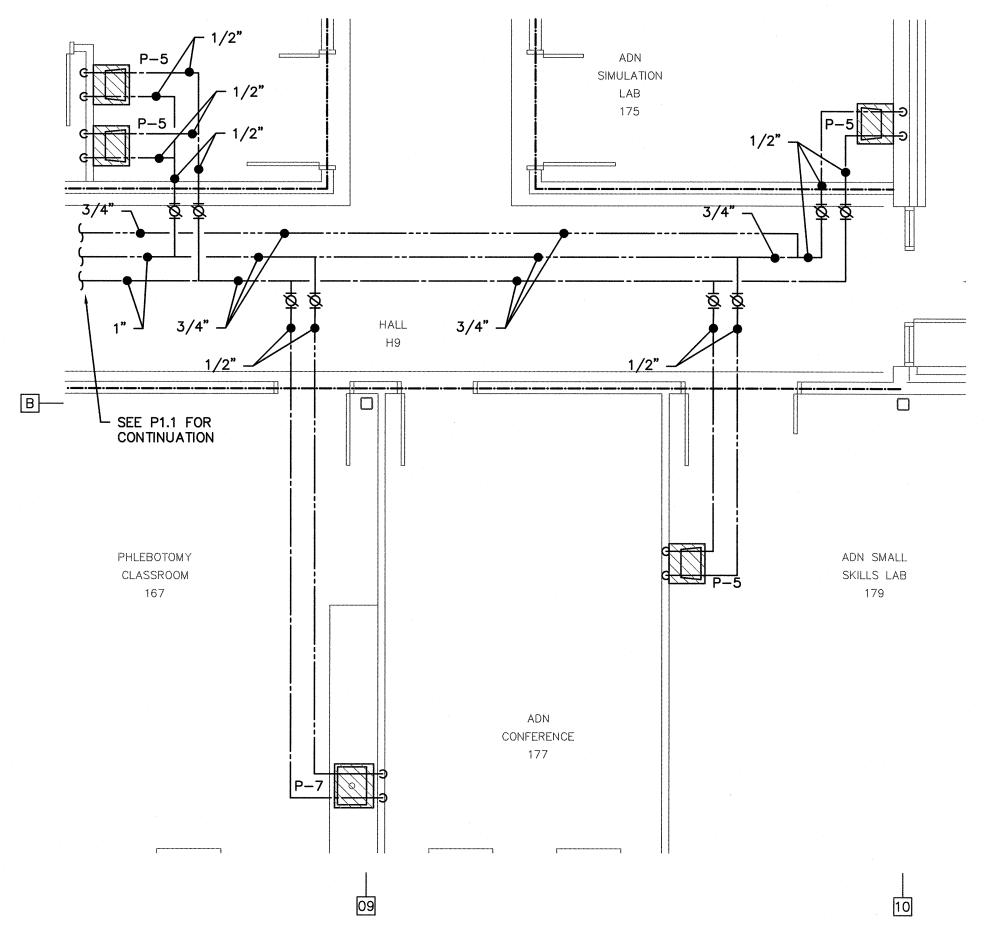
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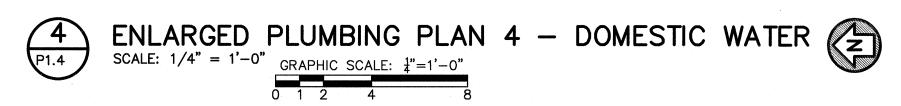
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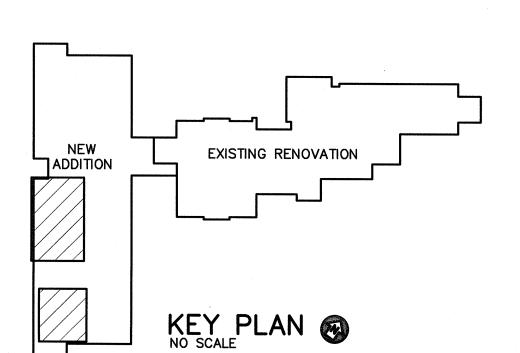














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